

EXECUTIVE SUMMARY

Prepared July 7, 2000

Mine Name: Rosebud Quarry
Operator: Star Stone Quarries, Inc.
4040 South 300 West
Salt Lake City, Utah 84107

Telephone: (801) 262-4300
Contact Person: Lon Thomas

Life of Mine: 10 years

I.D. No: M/003/026
County: Box Elder
New/Existing: Existing Small mine -
expanding to large mine status
Mineral Ownership: BLM
Surface Ownership: BLM
Lease No.(s): n/a
Permit Term: 5 years

Legal Description: SW/4 NW/4 and the SE/4 SW/4 of Section 14, Township 10 North, Range 16 West, SLBM, Box Elder County, Utah

Mineral(s) to be Mined: Quartzite flagstone

Mining Methods: Surface excavation

Acres to be Disturbed: 9.5

Present Land Use: Grazing, Wildlife Habitat

Postmining Land Use: Grazing, Wildlife Habitat

Variances from Reclamation Standards (Rule R647) Granted: 0.2 acres allowed for pre-existing road. R647-4-111.8

Soils and Geology:

Soil Description: Soils are of the Promo-Puett complex. These soils are classified as loamy-skeletal, mixed (calcareous), Mesic Lithic Xeric Torriorthents. Depth of topsoil ranges from 0 to 13 inches over bedrock.

pH: 7.8 - 7.9

Special Handling Problems: None anticipated.

Geology Description: Cambrian (?) Quartzite of the Clarks Basin formation. The metamorphosed sediments are characterized by layers or partings of micas developed between thicker beds of fine quartzite.

Hydrology:

Ground Water Description: No groundwater has been intercepted by mining operations to date. There are no wells in the immediate vicinity of the quarry. No groundwater impacts are anticipated due to the shallow depth of proposed pit excavations.

Surface Water Description: No perennial surface waters at this site. An ephemeral drainage is located to the southwest of the quarry which will not be impacted by the mining operation.

Water Monitoring Plan: None required.

Ecology:

Vegetation Type(s); Dominant Species: Pinyon/juniper (dominated by Utah Juniper) and sagebrush/grass (dominated by Wyoming sagebrush, black sagebrush and blue grama) communities are found at the site.

Percent Surrounding Vegetative Cover: 30% ground cover in the pinyon/juniper community, 32.7% ground cover in the sagebrush/grass community.

Wildlife Concerns: There are no threatened or endangered species or critical habitat within the project area.

Surface Facilities: There are no permanent facilities located at this site. A temporary camp for employees will set up to comply with BLM's Use and Occupancy Regulations in 43 CFR 3715.3-2.

Mining and Reclamation Plan Summary:

During Operations:

Salvageable soil over quarry and waste dump areas will be scraped from the surface using a D8 dozer or excavator bucket and piled up prior to mining.

A hydraulic excavator is used to extract the stone from the quarry and distributed to workers on the quarry dump and pad to process. Stone is split by hand to uniform size and stacked on pallets for shipping. Unusable material is placed on the waste dumps. Quarry cuts will be approximately ten feet deep. Equipment used includes a D-8 bulldozer, hydraulic excavator, two-yard front end loader, and two dump trucks. A 500 gallon fuel tank is located on site within a secondary containment structure.

After Operations:

Excluding 0.2 acres of pre-existing access road, all disturbed areas will be reclaimed. Excess (waste rock) materials will be used to backfill quarry pit areas so that they are free-draining. The area will be regraded to approximate original contours (slopes of 3 horizontal to 1 vertical). Quarry and waste rock dump areas will be covered with 18 inches of fines (amended with compost to support vegetation). Salvaged soil will be placed over the fines prior to seeding. All areas will be seeded by broadcasting an approved seed mix designed to meet the intended post mining land use of grazing and wildlife habitat.

Surety:

Amount: \$68,700 (year 2005 dollars)

Form: Unknown at this time

Renewable Term: 5 years